

What is claimed is:

Sub.a1 >

1. A Karaoke system comprising:
 - a video image capturing device for capturing a video
 - 5 image of a Karaoke performer;
 - a Karaoke medium player for retrieving audio signals and an indicia image of a song from a Karaoke medium;
 - means for downscaling and repositioning the indicia image;
 - 10 means for compositing the downscaled and repositioned indicia image with the image of the Karaoke performer to provide an output video image;
 - a video monitor for displaying the composite output video image.

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2. A Karaoke system as in claim 1, wherein the indicia image contains words for the song.

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3. A Karaoke system as in claim 1, wherein the
 - 20 means for compositing overlays the downscaled and repositioned indicia image on the image of the Karaoke performer.

4. A Karaoke system as in claim 1, wherein the
 - 25 means for compositing removes a background of the downscaled and repositioned indicia image before overlaying the downscaled and repositioned indicia image on the image of the Karaoke performer.

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5. A Karaoke system as in claim 1, wherein the means for downscaling and the means for compositing are implemented in a stand-alone device separate from the Karaoke medium player.

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6. A Karaoke system as in claim 1, wherein the means for downscaling and means for compositing are implemented as components of the Karaoke medium player.

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7. A Karaoke system as in claim 6, wherein the Karaoke medium player is a compact-disk-plus-graphics (CD+G) player.

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8. A Karaoke system as in claim 1, wherein the means for downscaling vertically downscales the indicia image by selectively dropping lines of the indicia image.

Sub. a3 > 9. A Karaoke video image processing device comprising:

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a first video input for receiving from a Karaoke medium player an indicia image associated with a song being played back;

a second video input for receiving a second video image from a second external video source;

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an electronic circuit to downscale and reposition the indicia image and to composite the downscaled and repositioned indicia image with the second video image to form an output video image;

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        a video output for outputting the output video_image
for display.

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10. A Karaoke video image processing device as in
5 claim 9, wherein the electronic circuit overlays the
downscaled and repositioned indicia image on the second
video image to form the output video image.

11. A Karaoke video image processing device as in
10 claim 10, wherein the electronic circuit removes a
background of the downscaled and repositioned indicia
image before overlaying the downscaled and repositioned
indicia image on the second video image.

15 12. A Karaoke medium/player comprising:
 a reader for retrieving data from a Karaoke medium,
 the data comprising audio data and an indicia image;
 an external video input for receiving an external
 video image;

20 a video processing circuit for downscaling and
repositioning the indicia image and combining the
downscaled and repositioned indicia image with the
external video image to form an output video image;

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25     image;

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an audio processor for processing the audio data to provide an output audio signal; and

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09767 *Chamaecrista nictitans* L. var. *nictitans*.
09768 *Chamaecrista nictitans* L. var. *nictitans*.
09769 *Chamaecrista nictitans* L. var. *nictitans*.
09770 *Chamaecrista nictitans* L. var. *nictitans*.
09771 *Chamaecrista nictitans* L. var. *nictitans*.
09772 *Chamaecrista nictitans* L. var. *nictitans*.
09773 *Chamaecrista nictitans* L. var. *nictitans*.
09774 *Chamaecrista nictitans* L. var. *nictitans*.
09775 *Chamaecrista nictitans* L. var. *nictitans*.
09776 *Chamaecrista nictitans* L. var. *nictitans*.
09777 *Chamaecrista nictitans* L. var. *nictitans*.
09778 *Chamaecrista nictitans* L. var. *nictitans*.
09779 *Chamaecrista nictitans* L. var. *nictitans*.
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an audio output for outputting the output audio signal.

13. A Karaoke medium player as in claim 12, wherein
5 the video processing circuit removes a background of the
downscaled and repositioned indicia image before
compositing the downscaled and repositioned indicia image
with the external video image.

10 14. A Karaoke medium player as in claim 12, wherein
the Karaoke medium is a compact-disk-plus-graphics (CD+G)
disk.

15 Sub. 24 > 15 15. A Karaoke medium player as in claim 14, wherein
the video processing circuit includes a CD+G decoder for
compositing the downsized and repositioned indicia image
with the external video image.

20 16. A Karaoke medium player as in claim 12, wherein
the video processing circuit includes a subcode processor
for receiving a stream of subcode data retrieved from the
Karaoke medium representing the indicia image and
modifying the subcode data to effect the downscaling and
repositioning.

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17. A Karaoke medium player as in claim 16, wherein
the Karaoke medium is a compact-disk-plus-graphics (CD+G)
disk and the video processing circuit further includes a

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CD+G decoder, and wherein the subcode processor sends the modified subcode data to a microprocessor interface of the CD+G decoder.

Sub. 25)⁵ 18. A method of generating video images for Karaoke applications, comprising the steps of:

- capturing a video image of a Karaoke performer;
- retrieving audio data and an indicia image associated with a song being performed by the Karaoke performer;
- 10. downscaling and repositioning the indicia image;
- compositing the downscaled and repositioned indicia image with the image of the Karaoke performer to form an output video image; and
- 15. displaying the output video image on a video monitor.

19. A method as in claim 18, wherein the step of compositing includes removing a background of the
20. downscaled and repositioned indicia image.

20. A method as in claim 18, wherein the step of downscaling reduces a vertical height of the indicia image by line dropping.